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	Application No.	Applicant(s)	
Nation of Allerent Wes	10/686,568	HONDA, HIROKAZU	
Notice of Allowability	Examiner	Art Unit	
	Beth E. Owens	2824	
The MAILING DATE of this communication of All claims being allowable, PROSECUTION ON THE MERITA herewith (or previously mailed), a Notice of Allowance (PTOL NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1	S IS (OR REMAINS) CLOSED in 85) or other appropriate communit RIGHTS. This application is s	this application. If not included inication will be mailed in due course.	
1. This communication is responsive to			
2. ☑ The allowed claim(s) is/are <u>1</u> .			
3. 🛮 The drawings filed on 17 October 2003 are accepted t	by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priori a) All b) Some* c) None of the: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorit International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	have been received. have been received in Applicatio	n No. <u>09/704,521</u> .	m the
Applicant has THREE MONTHS FROM THE "MAILING DA noted below. Failure to timely comply will result in ABAND THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requireme	ents
 A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which 			OF
6. CORRECTED DRAWINGS (as "replacement sheets")	must be submitted.		
(a) 🗌 including changes required by the Notice of Drafts	sperson's Patent Drawing Review	(PTO-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date _	,		
(b) ☐ including changes required by the attached Exam Paper No./Mail Date	iner's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 C each sheet. Replacement sheet(s) should be labeled as such			of
 DEPOSIT OF and/or INFORMATION about the d attached Examiner's comment regarding REQUIREME 			•
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-9 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/	48) 6. 🗌 Interview Su Paper No./	formal Patent Application (PTO-152) Immary (PTO-413), Mail Date Amendment/Comment	
Paper No./Mail Date <u>10172003</u>	•		
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	sit 8. ⊠ Examiner's 9. □ Other	learly	
		Vu A. Le Primary Examiner	

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Allowance

1. Claim 1 is allowed.

2. The following is an examiner's statement of reasons for allowance:

There is no prior art available nor obvious motivation to combine elements of prior art which teach a method for manufacturing a flip-chip type semiconductor device, comprising the steps of forming a plurality of pad electrodes on a semiconductor substrate; forming an insulating stress-absorbing resin layer on said semiconductor substrate, said insulating stress-absorbing resin layer having openings corresponding to said pad electrodes; adhering a resin coated conductive layer on said semiconductor substrate, said resin coated conductive layer comprising a photosensitive insulating stress-absorbing resin layer made of thermosetting resin laminated by a first conductive layer, said insulating stress-absorbing resin layer having openings corresponding to said pad electrodes; forming a second conductive layer having a pattern on said first conductive layer; perforating said first conductive layer by using said second conductive layer as a mask, so that said first and second conductive layers have openings; irradiating said photosensitive insulating stressabsorbing resin layer with light by using an exposure mask and said patterned first and second conductive layers so that irradiated portions of said photosensitive stressabsorbing resin layer are hardened; developing said photosensitive insulating stressabsorbing resin layer so that unirradiated portions of said photosensitive insulating

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stress-absorbing resin layer are removed, so that said photosensitive insulating stress-absorbing resin layer has openings corresponding to said pad electrodes; forming flexible conductive members each filled in one of said openings and electrically connecting said first and second conductive layers to respective ones of said pad electrodes; and forming a plurality of metal bumps formed on said second conductive layer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beth E. Owens, Ph.D. whose telephone number is 571.272.1882.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms, can be reached on 571.272.1869. The fax phone number for the organization where this application or proceeding is assigned is 703.872.9306 for official communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571.272.2800.

BEO 03.05.04

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